Interview Summary	Application No.	Applicant(s)
	09/801,795	MATICHUK, BRUCE
	Examiner	Art Unit
	Joseph P. Hirl	2129

All participants (applicant, applicant's representative, PTO personnel):

(1) *Joseph P. Hirl.*   (3)_____.

(2) *David M. O'Neill.*   (4)_____.

Date of Interview: *07 May 2007.*

Type: a)☒ Telephonic   b)☐ Video Conference
        c)☐ Personal [copy given to: 1)☐ applicant   2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes   e)☒ No.
   If Yes, brief description: _____.

Claim(s) discussed: *13,18 and 21.*

Identification of prior art discussed: *Okerlund.*

Agreement with respect to the claims f)☒ was reached.   g)☐ was not reached.   h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: *Discussion related to only claims 13, 18 and 21. Agreement reached by fax from attorney on May 9, 2007. See attachment.*

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

JOSEPH P HIRL
PRIMARY EXAMINER
TECHNOLOGY CENTER 2100

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Examiner's signature, if required

U.S. Patent and Trademark Office
PTOL-413 (Rev. 04-03)   Interview Summary   Paper No. 20070510

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To: Examiner Joseph P. Hirl   **From:**   David M. O'Neill
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Fax: (571)273-3685   **Pages:** 11

Phone: (571)272-3685   **Date:**   May 9, 2007

Re: United States Patent Application Serial No. **CC:**
            09/801,795

☐ **Urgent**   ☐ **For Review**   ☐ **Please Comment**   ☐ **Please Reply**   ☐ **Please Recycle**

Dear Examiner Hirl:

As we discussed, attached is a proposed amendment for your use in preparing an Examiner's Amendment. If you have any questions or further requests please call.

Best regards,

David M. O'Neill

IN THE U.S. PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of: Atty. Docket:

Matichuk   062A.0002.U1(US)

Serial No.: 09/801,795   Art Unit: 2129

Filed: March 9, 2001   Examiner: Hirl, Joseph P.

Customer No.: 29683   Confirmation No.: 1394

Title: System and Method for Automatic Creation of a Graphical Representation
          of Navigation Paths Generated by an Intelligent Planner

[PROPOSED] SUPPLEMENTAL AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This paper is herewith filed in supplement to the Appeal Brief dated November 16,

2006 filed in response to Examiner's Office Action mailed on January 20, 2006 (hereinafter

"the January 20 Office Action") for the above-captioned U.S. Patent Application. The

proposed amendments to the claims presented herein were requested by the Examiner of

record in a teleconference initiated by the Examiner on May 7, 2007.

    Amendments to the Claims begin on page 2 of this paper.

    Remarks begin on page 9 of this paper.

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1.   (Previously presented) A computer system computer application screen fingerprinter, said computer system comprising:

a processor;

a computer memory coupled to said processor; and

a screen fingerprinter stored in said computer memory, wherein said fingerprinter comprises a decision tree that selects at least one region and/or pattern of screens of a presentation space of a computer application to be captured such that an occurrence of the at least one region and/or pattern enables the decision tree to uniquely identify each of the screens.

2.   (Original) A computer system as in claim 1, wherein said fingerprinter allows a user to modify which portion of a screen comprises said region and/or pattern and which attributes of said region and/or pattern to examine.

3.   (Previously presented) A computer system as in claim 1, wherein said fingerprinter creates the decision tree based on said at least one region and/or pattern such

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that after each screen is compared to the region or pattern at each decision node, a screen

identifier will come to a different end node of said decision tree for each screen.

4.   (Original) A computer system as in claim 3, wherein said fingerprinter allows

a user to modify said decision tree by modifying the comparisons at the decision nodes.

5.   (Previously presented) A computer system computer application recorder,

said computer system comprising: a processor; a computer memory coupled to said

processor; a user interface and a recorder stored in said computer memory, wherein said

recorder records in said computer memory a knowledge base which comprises each screen of

the presentation layer of a computer application, the keystrokes and/or programs necessary to

reach each state, the available actions from each state of each screen and the effect of any

actions available in each state through navigating said computer application in said user

interface.

6.   (Original) A computer system as in claim 5, wherein said processor generates

said file while a user navigates said another computer system in said user interface.

7.   (Original) A computer system as in claim 5, wherein said processor generates

said file while automatically navigating said another computer system.

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8.   (Previously presented) A computer system as in claim 5, wherein a fingerprint of each screen is included in said knowledge base.

9.   (Previously presented) A computer system as in claim 5, wherein pre-conditions and post-conditions for each state are included in said knowledge base.

10.   (Original) A computer system navigation planner, said computer system comprising: a processor; a computer memory coupled to said processor; at least one computer application model stored in said computer memory; and a navigation planner stored in said computer memory; wherein when said navigation planner receives a problem statement, said navigation planner accesses said at least one computer application model to create a plan of solving said problem statement and executes said plan.

11.   (Original) A computer system as in claim 10, wherein when said plan fails, said navigation planner creates a new and different plan to solve said problem statement.

12.   (Previously presented) A computer system computer application model generator, said computer system comprising:

a processor;

a fingerprinter;

a recorder; and

a user interface;

wherein said fingerprinter selects at least one region and/or pattern of the screens of

the presentation space of a computer application to be captured such that said at least one

region and/or pattern of each screen is unique;

wherein said recorder records in said computer memory a knowledge base which

comprises each screen of the presentation layer of a computer application, the keystrokes

and/or programs necessary to each screen, a fingerprint of each screen, the available actions

from each screen and the effect of any actions available in each screen through navigating

said computer application in said user interface;

wherein additional relationships between said screen and said knowledge base can be

input through said user interface such that said computer application model generator can

model said computer application.

13.   (Cancelled)

14.   (Original) A method of uniquely identifying the screens of the presentation

layer of a computer application comprising the steps of: taking a screen capture of each

screen of the presentation layer of a computer application; selecting areas of said screen

captures to be examined for the presence of an attribute in said area; and creating a decision

tree such that each of said screen captures has a unique end node of said decision tree.

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15.   (Original) A method as in claim 14, wherein said areas are selected automatically.

16.   (Original) A method as in claim 14, wherein said areas are selected manually.

17.   (Original) A method as in claim 14, wherein said decision tree is created manually.

18.   (Currently amended) A method ~~as in claim 14 further comprising:~~ ~~of recording the states of a computer application comprising the steps of:~~ accessing said computer application; navigating said computer application; and recording in a knowledge base each screen of the presentation layer of said computer application, keystrokes and/or programs necessary to reach each state of each screen of said computer application, the states of each screen, available actions from each screen and the effect of any actions taken on each screen.

19.   (Original) A method as in claim 18, wherein said computer application is navigated automatically.

20.   (Original) A method as in claim 18, wherein said computer application is navigated manually.

21.   (Currently amended) A method ~~of planning a solution to a problem statement~~

comprising: ~~the steps of:~~ receiving a problem statement at a computer system, the problem

statement specifying at least one goal; accessing at least one computer application model that

encapsulates information on how at least one computer application operates; ~~is controlled~~

~~and/or data is accessed;~~ using a navigation planner in combination with the computer

application model to plan ~~planning~~ at least one path through said at least one computer

application that will achieve the at least one goal of said problem statement; and executing

said at least one path.

22.   (Previously presented)   A method of modeling computer applications

comprising the steps of: taking a screen capture of each screen of the presentation layer of a

computer application; selecting areas of said screen captures to be examined for the presence

of an attribute in said area; creating a decision tree such that each of said screen captures has

a unique end node of said decision tree; accessing said computer application; navigating said

computer application; and recording in a knowledge base each screen of the presentation

layer of said computer application, keystrokes and/or programs necessary to reach each state

of each screen of said computer application, the states of each screen, and the effect of any

actions taken on each screen.

23.   (Previously presented) A method as in claim 22, further comprising the steps

of: allowing a user to insert additional relationships and commands into said knowledge base.

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24.   (Previously presented) A system for navigating an application comprising:

a processor;

a computer memory coupled to the processor;

a screen fingerprinter stored in said computer memory, wherein said fingerprinter

comprises a decision tree that selects at least one region and/or pattern of screens of the

presentation space of a computer application to be captured such that an occurrence of the at

least one region and/or pattern enables the decision tree to uniquely identify each of the

screens;

a recorder stored in the computer memory, the recorder recording a knowledge base

which comprises the plurality of screen captures, one or more inputs and/or programs

necessary to reach the application states indicated by each of the screen captures, one or more

actions available from each of the states, and the effects of undertaking each of the actions

available from each of the states; and

a navigation planner that receives a problem statement, creates a plan of solving the

problem statement by using the knowledge base, and executes the plan,

wherein the creating of the plan by the navigation planner comprises the navigation

planner dynamically analyzing a current screen to determine a current state, determining a

desired state associated with the problem statement, and dynamically identifying a sequence

of the actions from the current state need to achieve the desired state.

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REMARKS

I.   Summary of the Examiner's Action

    A.   Claim Rejections

As set forth in paragraph 4 of the January 20 Office Action, claims 5, 8, 9, 12, 18, 22, 23 and 24 stand rejected under 35 U.S.C. § 112, first paragraph as failing to comply with the written description requirement.

As set forth in paragraph 7 of the January 20 Office Action, claims 1 – 28 stand rejected under 35 U.S.C. § 102(e) as being unpatentable over United States Patent No. 6,690,371 to Okerlund *et al.*

These rejections are respectfully disagreed with, and are traversed below.

II.   Telephonic Interview

In a May 7, 2007 telephonic interview initiated by the Examiner, the Examiner indicated in view of the arguments set forth in the Appeal Brief dated November 16 all of the pending claims were allowable with the exception of claims 13 and 18 – 21. The Examiner indicated that claims 13 and 18 – 21 would be allowable if certain amendments were made to independent claims 13, 18 and 21. The Examiner requested that Applicant's representative propose claim amendments responsive to the issues identified by the Examiner that could be used by the Examiner in an Examiner's amendment to place the case in condition for

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allowance. Applicant's representative agreed to propose such amendments.

III.   Applicant's Response

Applicant has proposed amendments to claims 18 and 21, and proposes the cancellation of claim 13. In view of the amendments, Applicant respectfully submits that all of the claims are patentable over the art of record, including Okerlund.

IV.   Conclusion

The Applicant submits that in light of the foregoing amendments and remarks the application is now in condition for allowance. Applicant therefore respectfully requests that the outstanding rejections be withdrawn and that the case be passed to issuance.

Respectfully submitted,

May 9, 2007

Date

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